

THIS STRANGE-LOOKING CRAFT is a catamaran-type boat built entirely by Paul Overton, of the Y-12 Research Services Department, for the entertainment of his family and friends. The boat is supported by two metal pontoons, is powered by a 25 horsepower outboard motor and can run from 17 to 18 miles per hour. It has a capacity of from 25 to 30 passengers. At the controls on deck is the Y-12er's daughter, Lana Jo.

Y-12er Builds Unique Boat For Pleasure On Norris Lake

Paul Overton's Catamaran-Type Craft Carries 25-30 Passengers; Named After Granddaughter

A lot of pals in the Y-12 Plant of Paul Overton, an inspector in the Research Services Department, and his friends and neighbors over in South Clinton, most likely will enjoy riding over the waters of Norris Lake this summer in a unique craft built entirely by the Y-12er. In fact, this is the second such boat constructed by Overton in the last couple of years.

The boat is of the catamaran type—described in the dictionary as a "vessel with twin hulls, side by side." The hulls are two pontoons of steel, each having three compartments to give added buoyancy and safety to the craft. The deck is of marine plywood.

Craft 24 Feet Long

The entire craft is 24 feet long by eight feet wide. The pontoons are 19 inches in diameter and when the boat is fully loaded only about seven inches of the pontoons are under water. This light draft makes the boat extremely maneuverable and permits it to be run into shallow water.

A sturdy rail and supports of one-inch tubing supports a barrier of metal screen 31 inches high for protection of passengers. There are three "gates" for entrance onto the deck, one on each side and one at the stern.

Has 25 H.P. Motor

Named the Miss Diane, after a granddaughter of the Y-12er, the boat is powered by a 25 horsepower outboard motor. Its builder says his craft can carry from 25 to 30 passengers in comfort and that the boat can run 17 to 18 miles an hour at top speed. Complete motor and steering controls are located on the deck toward the stern of the craft.

The Miss Diane, Overton says, can provide a lot of entertainment for he and his guests in such activities as fishing, just cruising around, as a place for picnics and other recreation.

Overton built the Miss Diane at his home in South Clinton, then moved the craft to Norris by truck—the same procedure he used on his first boat.

Safety Council Advises Vacationers

It's vacation time. The whole family piles into the jam-packed auto. You're off!

Every condition fits perfectly a newly expressed but time-perfected formula for fatality.

The National Safety Council calls it "Formula for Foulup on the Highway." Here's their recipe: Take several youthful space cadets. Turn them loose in the confines of a car. Add a few ingredients like big, inflated balloons, drippy ice cream cones and back-seat tussles.

Brother, you're asking for an accident!

Who'd let a child run rampant in a car—unless he was snug in a harness, batted down by a seat belt or taught to sit tight and behave himself when in the car?

Lots of folks, according to National Safety Council.

"A car-orbiting child, they say, 'is a threat to himself and others. He can (1) crack his head, (2) harass the driver, or (3) cause frayed nerves all around.'"

How serious is the child-in-a-car problem?

Many children get hurt in cars each year because they don't sit still. Countless thousands of parents get hot under the collar when they should keep cool.

Teach a child what "no" means—and stick by your guns," the Council advises moms and dads. And teach children such rules as these:

1. Don't put hands or arms out windows.
2. Don't climb on seats. Sit

Continued on Page 4

Foreign Travel Rules Revised

Security Instructions Issued By AEC

Revised instructions have been issued by the Atomic Energy Commission concerning the reporting of foreign travel by individuals who possess or formerly possessed AEC security clearances.

Employees who propose trips for any reason to a Soviet-bloc country must report the proposed visit to the Security Department as far in advance as possible. Proposed travel in foreign countries other than Soviet-bloc nations, need no longer be reported as formerly required.

Employees who terminate are reminded of the continuing security interest of the Commission in the matter of travel to a Soviet-bloc country. Former employees who plan travel to a Soviet-bloc country are urged to report such travel to the Commission as far in advance of the trip as possible.

An employee traveling in any country should always be cognizant of his individual security responsibilities and should report immediately to the appropriate United States diplomatic representative any circumstances that may constitute a threat to his personal safety or to the security interest of the Atomic Energy Commission.

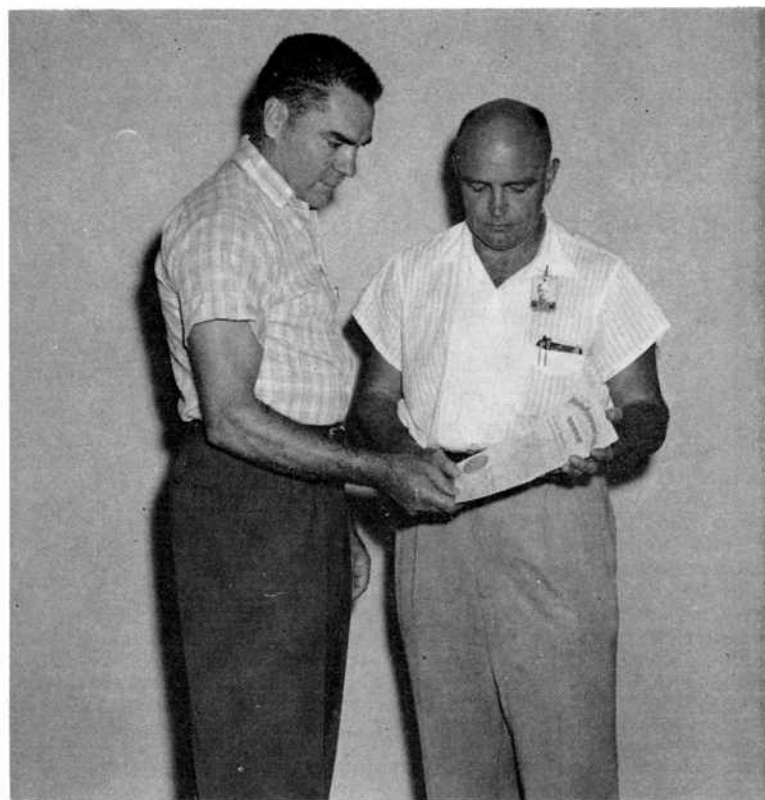
Linde Rushes Construction Date On Hydrogen Plant

The start of construction on a liquid hydrogen plant at Torrence, Cal., by the Linde Company, Division of Union Carbide Corporation, has been advanced at request of the National Aeronautics and Space Administration. The NASA recently awarded a contract to Linde for the supply of 3,300,000 pounds of liquid hydrogen per year and the construction date has been advanced from late this year.

Although the NASA's minimum requirements will be far above five tons of liquid hydrogen per day, the new Linde plant will be capable of producing more than this amount. Present plans call for an impure hydrogen gas stream to be brought into the Linde plant from the Olefins Company's facilities in Torrence. Before hydrogen leaves the Linde plant, it will be processed to contain less than two parts per 1,000,000 impurities and liquefied for transport to NASA and other consumers.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
6 Days Or
140,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through July 5
Phone 7755
For Daily Report
On Accident-Free Hours



T. E. LANKFORD, LEFT, AND E. M. FOSTER, RIGHT, ADMIRE a certificate of completion received by Foster after finishing a correspondence course entitled "Selected Units In Chemistry." Foster is in the Chemical Operations Division. Lankford also received a certificate of completion after finishing an electronics course. Lankford is in the Process Maintenance Department.

Three More Y-12ers Improve Education

Certificates Awarded In Helpful Courses

Three more Y-12ers have been added to the rapidly growing list of employees who have taken advantage of the Union Carbide Nuclear Company Educational Assistance Plan to take educational courses that will prove beneficial to their work in the plant. They are Ernest M. Foster, general foreman in the Alloy Division; Theodore E. Lankford, a foreman in Process Maintenance; and Wade M. Roberts, a health physics inspector in the Radiation Safety Department. Each has received highly regarded certificates of completion of courses from correspondence schools and the University of Tennessee Evening School.

Studied With ICS

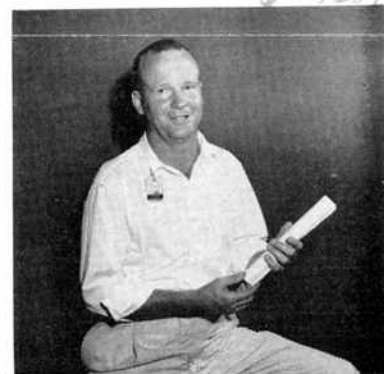
Foster received a certificate from the International Correspondence School, Scranton, Pa., in a course of "Selected Units in Chemistry." The instruction covered several subjects under the general field of chemical engineering and business administration. Foster previously had received a certificate from ICS on "Elements of Nuclear Energy," the course including instruction in atomic theory, fission reaction and reactors.

Foster was born in Kingfield, Me., went to high school in Weld, Me., and graduated from the University of Maine with a B.S. Degree in Chemical Engineering in 1937. He is a major in the United States Marine Corps reserve and came to work in Y-12 on August 17, 1953.

DeVry Gives Certificate

Lankford's certificate came from the DeVry Institute, Chicago, Ill. His course covered "Fundamentals of Electronics" with instruction being given in industrial elec-

Continued on Page 4



WADE ROBERTS, of Health Physics, proudly displays his Basic Accounting certificate which was awarded by the University of Tennessee Evening School after Roberts completed the necessary accounting requirements.

W. C. Koehler To Address Physics Seminar Session

W. C. Koehler, of the Oak Ridge National Laboratory Physics Division, will speak at the next physics seminar session of the ORNL physics division on Friday afternoon of this week, July 10. The meeting will be at 3:15 p.m. in the auditorium of Bldg. 4500, ORNL. The discussion subject will be "Solid State Physics in France." Any Y-12 employee interested in the topic is invited to attend the seminar.

POPULAR DISHES PLANNED FOR Y-12 SPECIAL LUNCHES

Dishes popular with Y-12ers will be served on the 50-cent Special Lunches to be served at the Y-12 Cafeteria tomorrow, Thursday, July 9, and next Tuesday, July 14. Ham loaf with pineapple sauce will be the entrée for the Special Lunch tomorrow. On next Tuesday roast beef hash will be served. Each Special Lunch also will include one vegetable, choice of salad or dessert and rolls and butter.

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Fun In Sun Can Be Harmful

Vacations should produce a happy, healthful blend of fun and sun. But when this seasonal tonic gets overdosed with ultraviolet (the sun's burning rays), the results are anything but happy. Sunburn is not only painful and ugly, it can be dangerous. A sunburn is just that: a burn. So before you take off for your vacation, remind yourself—and the rest of the family—to take a few sensible precautions. Be sun wise!

Skins differ in sensitivity to sun. Blondes and red heads usually burn faster than dark-skinned brunettes. If you're light-skinned, be sure to take your sunshine in limited doses. Stay out of the noonday sun when rays are short, direct, and most intense.

Acquire your suntan gradually. If you go in for sunbathing, the safest time to start is before 11 a.m. and after 3 p.m. For most people, 15 minutes in the hot sun is long enough for the first stint. Stretch your sun time by a few minutes per day until you have a protective tan. If you burn quickly, start sun baths after 4 p.m.

Remember that the areas of the body most sensitive to sun are the face, legs, and the skin of the inner arm.

Children burn more easily than grownups. Sun baths for babies under 1 year should be carefully clocked. If your doctor recommends sun baths, he will probably suggest starting the baby with just 2 minutes of direct sun—1 minute back, 1 minute front; increased by 2 minutes each day until you reach the limit of 30 minutes all-over sun-bathing—15 minutes front and 15 minutes back. Youngsters under 2 years should start with only 5 or 10 minutes of direct sun, increased by about 5 minutes a day.

Some sunshine is good for most people, but for a few it can be harmful. If you've been ill, it's best to ask your doctor if you should sun-bathe, and for how long.

At the beach, water and sand reflect the sun's rays, doubling their intensity. Watch out for sky-shine, too; ultraviolet rays can cut through clouds and fogs. If you burn easily, protect yourself with proper beach gear: a big umbrella, a big-brimmed hat, and suntan preparation. Use suntan lotion for the children, too. A T-shirt worn over a swim suit protects shoulders and back from overexposure.

Remember that no matter how tanned the skin gets, it's still possible to get an overdose of ultraviolet if you stay unprotected for long periods.

If you or anyone in your family does get a sunburn, dust the reddened area with talcum—or use a soothing dressing recommended by your doctor. Severe sunburn with blisters deserve a physician's attention.

For safe summer fun:
• Get your coat of tan gradually
• Use a suntan preparation
• Alternate sunshine with shade

The Travelers Insurance Companies studies show that exceeding the speed limit caused 12,770 deaths and 980,000 injuries during 1958 on our highways.



Here's wishing the "ole colonel" himself, George Whipple Dobbs, a fine vacation while basking on the sands of Daytona Beach. So now let's see what other Y-12 folks are doing.

MAINTENANCE

The Research Services Department extends sympathy to the family of J. W. Woody who died of a heart attack on June 27 . . . L. R. Hall is taking a train trip during his vacation; he is joining the "Rail Museum Safari" from Roanoke to Bluefield . . . B. B. Coulter is camping with his family near Watts Bar Lake . . . C. J. Cumbie is visiting in Greeneville, Tenn., and Pensacola, Fla. . . The department sends get-well wishes to C. E. Disney and F. H. DeFord. . . J. L. Vassey is welcomed back after a long illness . . . W. E. Thomas is visiting in Sault St. Marie, Mich., and Canada . . . E. S. Hardy headed for Birmingham . . . A. A. C. Hitchcock is getting acquainted with his new baby boy while on vacation . . . E. B. Galloway took off for St. Louis . . . J. L. Crawford is entertaining relatives during his vacation and then will head toward Washington, D.C. . . S. B. Peake is traveling to Mexico by the way of New Orleans . . . George Graham is spending his week showing the sights to 'mom' visiting from Pasadena, Calif.; they are also going to a big family reunion in Cleveland, Tenn. . . G. A. Lundquist is a new member of the Anderson County Rescue Squad. . . C. B. Bridges and family are camping in the Smokies . . . N. L. Browder is visiting relatives in Rossville, Ga. . . N. R. Corbin is getting in a little fishing for a week on vacation . . . M. L. Garrison is taking his granddaughter to see her grandmother at Sandoval, Ill. . . R. H. Gilbert is visiting relatives in Claiborne County, Tenn. . . J. L. Hyder is spending his vacation in N.C. as is E. L. Pickard . . . A. R. Shamblyn journeyed to Detroit for his leisure time.

Electrical Maintenance sends get well wishes to E. L. Hendrix, W. H. Jones, J. R. Baumgarner, J. H. Whidden, J. Miller, T. A. McFarland and F. Darby . . . J. W. Scarbrough, T. E. Rogers and R. W. Coker are spending their leisure time relaxing at home . . . F. J. Russell is flying to San Francisco to meet his brother, the two of them will continue on to Mexico to do some fishing . . . J. H. Key and family are going to Memphis to visit relatives . . . C. E. Phillips will travel to Fresno, Cal., to visit his new grandson . . . W. W. Smith will journey to Washington, D.C., to visit his kin . . . H. J. Tate and family will spend



QUEEN AND KING of the Elm Grove, Oak Ridge, School May Day Festival were Mary Elizabeth Rowland, 12, daughter of B. E. Rowland, of the Y-12 Z Area; and Nathan Tillery, 12, son of Wallace Tillery, of Oak Ridge National Laboratory.

their vacation on a trip to New York.

FINANCE AND MATERIALS

Bill Moles, Timekeeping, and family are vacationing in Gatlinburg.

Get well wishes are extended to Frances Patton, Engineering Records.

A warm welcome from the Mail Dept. is extended to Effie Lou Cagley and J. E. Kimblin.

Geraldine Watson, Property, and her husband Lewis, of the General Machine Shop, are in Daytona Beach; also they will visit in Savannah, Ga., with her twin brother and new nephew.

A. K. Phillips, Reproduction, and husband, Clarence, of the Electrical Dept., flew to Fresno, Cal., for a visit with relatives . . . R. K. Stewart is vacationing in Lenoir City.

SHIFT SUPERINTENDENTS AND UTILITIES

W. S. Porter, of the Shift Superintendents, spent last week-end at the Castle in the Sky—Lookout Mountain . . . G. M. Kirtland is vacationing in Tallahassee and Tampa, Fla. . . G. W. Oliphant is on a two-week military leave at Cape Canaveral.

O. M. Blackwell, Jr., Utilities, is vacationing at home in Oak Ridge . . . J. D. Tolliver is visiting relatives in Kentucky for a week and then plans on a trip to Florida for another week . . . S. Kite is taking it easy at Indian Rock, Fla. . . The H. C. Beesons are at Winston-Salem, N. C., and Myrtle Beach, S. C. . . The A. H. Shuberts journeyed to Indian Rock, Fla. . . W. R. McCollister is camping and trout fishing at Citico in the Cherokee National Forest.

E. S. Smith is visiting his father in Appalachia, Va. . . A. J. Edwards and wife are visiting his son and family in Norfolk, Va. . . R. B. Amos spent his long week-end with his son who came home from Norfolk, Va., the younger Amos is in the Navy . . . The J. H. Humphreys are visiting relatives in Copperhill, Tenn., and Murphy, N. C. . . C. E. Oney is taking it easy at home on vacation . . . L. M. Kittrell is entering U-T Hospital for tests and a checkup. . . Get well wishes go to E. I. Clark who is in the hospital, also condolences in the death of his father.

CHEMICAL OPERATIONS

R. Slate, Jr., of Colex Operations, is soldiering down at Fort Stewart, Ga. . . Leroy Holbert enjoyed his holiday vacation at home . . . Frankie Townsend recently viewed the sights of Roan Mtn. at the Rhododendron Festival, then ventured on the Blue Ridge Parkway to Mt. Mitchell where he took a train ride on ole Tweetsie, No. 12 . . . John Shepard also enjoyed the Rhododendron Festival . . . H. O. Seivers vacationed at Myrtle Beach . . . Shorty Burnett fished and cruised around on Boone Lake near Bristol, Tenn. . . Bob Bratcher spent his long week-end on Junaluska Lake in N. C. . . V. R. Sexton vacationed at home in Karns . . . Coy Crutcher sold coon dogs and working on his new house . . . H. R. Floyd just returned from Daytona Beach . . . H. A. Lay visited family and friends in Oneida and Memphis. . . On June 30 (Oh, Happy Day) Tom Hardin made a hole-in-one on the sixth hole at the Whittle Springs course . . . Among the stay-at-home folks were R. O. Davis and Joe Milligan.

Bonnie Duff, fine reporter for The Bulletin, in the Chemical Operations Division is leaving to take over full time housekeeping duties, our best wishes go with Bonnie. . . Margaret Hickey is vacationing in Florida.

Beta Two Department says that B. J. Key was the lucky winner on

Continued on Page 4

Son Of Y-12er And Pal Cut Discs For Capitol Records

Bud Bradshaw, James Making Excellent Start

Two young Oak Ridge men—one the son of a Y-12er—have been making a substantial start in a career of making phonograph records in glamorous Hollywood—the California one, not in Florida. They have signed substantial contracts with Capitol Records and already have had a couple of discs waxed for presentation to the public.

Dad In Machine Shop

The young men are Robert Bradshaw—much better known around Oak Ridge as "Bud"—and William H. "Bill" James. Bradshaw is the 21-year-old son of R. H. Bradshaw, of the Y-12 General Machine Shop. Both Bud and Bill are well known to musical circles in Oak Ridge—having played with some local organizations in their guitar and vocal offerings. They also have made several appearances on Oak Ridge and Knoxville radio stations.

Back in January the young musicians decided to take off for the "Golden West." Bill had an automobile and wanted a job—singing and guitar playing preferred—and Bud also wanted to try Hollywood. After a few weeks of working and seeking auditions—on April 2 they signed a contract with Capitol.

First Disc Rock and Roll

Their first record was issued by Capitol under the label of a subsidiary company—called "The 5/4". Given the name of "The Pierce Brothers" by the record firm for "The 5/4" platter, they made "Casting My Spell," a rock and roll tune. Under their own names and under the Capitol label the young singers have cut "Tonight, I Walk Alone," which was written by Bud. Incidentally, the son of the Y-12er also has written numerous other songs, some of which may be recorded by Capitol.

That Capitol record, "Tonight, I Walk Alone," reached Oak Ridge just a few days ago and is understood to be making a good mark in the trade.

Mentioned In Trade Papers

In a recent letter to his father Bud reveals that he and Bill broke into Billboard magazine—known as the "Bible" of the entertainment world. Cashbox, another show business trade paper, also carried a recent story about the Oak Ridge youngsters.

The letter from Bud also stated that he and his partner have cut two sides for another record firm, known as Mun-Rob. The titles of these numbers are "The Voodoo Queen and the Medicine Man" and "Everybody'll Be Surprised To Know I Passed." An early release is scheduled for this platter.

Still Another Name

On these discs the Oak Ridge team will be known as "Billy And The Hexatones. The name change is a part of the Capitol contract that calls for Bud and Bill to use their own names only for records issued by that firm.

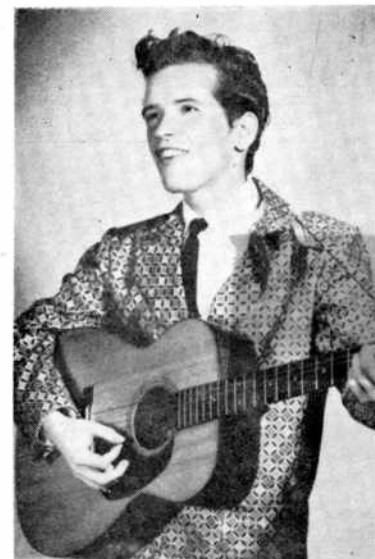
The Oak Ridge lads also are registering a ballad and a "pep-rocker" for another early release. These titles will be "I'm Sorry, But It's True" and "Little Girl, Little Girl."

Bud and Bill plan to come back to Oak Ridge early this summer—probably stopping en route for personal appearances to plug their records.

Playing Since 1952

Bud has been playing guitar since 1952—and his only music lessons have been in reading music. From this he has been able to write his own arrangements used by he and Bill. Bud's military service has been several years with National Guard units. He is single.

Bill is 22 years old, being born in Murfreesboro, Tenn. However,



Bud Bradshaw



Bill James



Get well wishes are extended the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

H. D. Castleberry and E. J. Rogers, Buildings and Grounds Maintenance; J. M. Butts, H. L. Woodward, F. E. Cox and W. B. Tyree, General Machine Shop; T. C. Brooks, J. L. Wade and J. E. Borum, Process Maintenance; E. H. DeFord, Research Services.

Rides Wanted, Offered

Ride wanted from West Knoxville, Solway Road, to East Portal, straight day. F. C. Bradburn, plant phone 7933, home phone Knoxville 8-5701.

Want to join car pool from vicinity of Island Home, South Knoxville, to Central Portal, straight day. C. G. King, plant phone 7-8667, home phone Knoxville 5-1312.

Ride wanted or will join carpool from South Knoxville, Island Home or U.T. Area to North Portal, straight day. Ed Houts, plant phone 7712, home phone Knoxville 2-6096.

Ride wanted or will join car pool from Route No. 2, Lafollette, to any portal, straight day. C. B. Russell, plant phone 7515.

he has lived for about 15 years in Oak Ridge. He served in the United States Air Force from August, 1955, to May, 1958. For the most part of his service he was stationed at Ft. Campbell, Ky., with the 101st Airborne Division. He is married to the former Miss Betty Dunnebacke and they have a son, David. They live at 139 Georgia Ave., Oak Ridge.



THE SLOW POKES MAY BE AT THE BOTTOM of the standings of the Y-12 Plant Softball League, but they keep the opposition hustling all the way. In the front row, from left, are Manager Harley Orange, Tom Wheeler, Rod Creigh, Bob Barker, Joe Habermas and Greer Valentine. In the rear are Marshall Biddix, Earl Cox, George Cox, Red Spradlin, Howard Price and Don Woodward. Absent when picture was made was D. B. Cofer.

269 Access Areas Located On 11 TVA State Lakes

The Tennessee Game and Fish Commission now has 269 public access areas located on 11 TVA lakes, according to C. E. Ruhr, Federal Aid Coordinator for the Commission. Ruhr pointed out that since the beginning of the access area development program in 1955, 71 of these areas have been completed and are now in use.

The completed areas are: Chickamauga Lake, 17 areas; Watts Bar Lake, 17 areas; Kentucky Lake, 16 areas; Fort Loudoun Lake, nine areas; Douglas Lake, three areas; Cherokee Lake, three areas; Norris Lake, three areas; Hales Bar Lake, two areas; and Pickwick Lake, one area. Areas scheduled for development during the coming year include two on Boone Lake, five on Fort Patrick Henry Lake, and six additional areas on Cherokee Lake.

The development of an access area, Ruhr stated, involves the construction of boat launching ramps, the clearing and grading of adequate parking space, and the construction of improvement of approach roads. Since Tennessee's access area development program is a federal aid project and 75 per cent of the cost is borne by that agency, the expenditure of state funds amounts to about \$325 for each access area developed. Ruhr also noted that unlike some neighboring states that charge an annual fee for the use of their access areas, Tennessee's access areas are open to the general public free of charge.

White's Creek Gets Rainbow Planting

White's Creek, located on the Central Peninsula Wildlife Area, has recently received a planting of 100,000 rainbow trout eggs, it has been announced by the Tennessee State Game and Fish Commission.

The eggs were flown to East Tennessee from Spokane, Wash., and planted in the Norris Lake tributary as part of an experimental plan to supplement trout plantings in large impoundments. In the White's Creek plantings the eggs were placed in small trays and buried in beds of gravel. Although this method is new in this section, it has been successfully used elsewhere, the commission points out.

Horseshoe League Has Eight Teams

An eight-team horseshoe pitching league for Y-12 employees has been formed by the Recreation Department. The horseshoe pitchers stage their action on the city courts on Tennessee Ave. near Jackson Square in Oak Ridge.

The eight teams are J. T. Berry-George Kaylor, H. Raper-Hubert Tripp, Elmer Green-F. R. Hart-

'Moss Animals' May Aid Fishing

During the fall draw-down of many East Tennessee lakes, reports of great numbers of fish eggs left stranded by the receding waters reached the State Game and Fish Commission. A check with biologists of the commission reveals that the large gelatinous masses are not fish eggs, but growths produced by colonies of little animals called bryozoans, or "moss animals."

These minute animals feed on very small plants and other food particles that are suspended or drift on the water. Since these colonies usually harbor numerous larvae of small insects — a staple diet for some of the state's smaller fish—they may prove beneficial to the fishing waters of East Tennessee.

Permits Required To Visit Refuges

Any Y-12ers wanting to visit the Hiwassee Island and Paint Rock waterfowl refuges located at Chickamauga and Watts Bar Lakes will have to have permits from the State Game and Fish Commission. These regulations are not intended to restrict activities and recreational opportunities, but are necessary for effective refuge management, the commission states.

The permits may be obtained from Bill Yambert, principal water-fowl biologist for the commission, Room 1-G, State Office Building, Knoxville; or by communicating with the respective refuge managers, Arnold Aslinger at Dayton or H. L. Johnson at Kingston.

lage, Avery Kendig-Carl Coley, Charley Beckett-Clyde Smith, Joe Dunlap-V. A. Stanley, L. G. Freeman-L. C. Martin, Frank Tiller-M. L. Petty.



THIS NICE STRING of fish was caught by R. R. Chilcoat, Mechanical Maintenance, recently from the Sequoyah Boat Dock on Norris Lake. The dock is owned by C. H. Caldwell, of the same department.

Gatlinburg Play Set For July 25

Starting Times Open 8 A.M., On July 16

The Y-12 Recreation Office is expecting a deluge of calls starting at 8 a.m. on Thursday, July 16 as the office will start to accept choice tee-off times for the fourth plant golf tournament of the season, set for the Gatlinburg Country Club for Saturday, July 25. The starting times for the event will begin at 7 a.m. and extend to 10:30 a.m. with foursomes to be scheduled to start at seven-minute intervals.

The deadline for entering will be at noon, Friday, July 24, the day before the tournament.

Golfers in the tournament will be assigned to four divisions, according to their handicaps. Prizes of golf balls will be awarded for low four scratch and handicap scores and for the most and next most number of pars scored during the 18 holes of play.

The Gatlinburg Club management requests that ball marks on the greens be repaired immediately, also anyone desiring to play after the tournament should check with the club professional.

In case of rain, the tournament will be postponed to a later date.

Whitewash Wins Posted In Blue Loop

Whitewash wins were common in the Blue League of Y-12 golfers in Oak Ridge for the week of June 22. Four teams turned in wins of six points, these included, Shatley-Kahley over Bremen-Hackett, Gambill-Hamby over Everitt-Loekhart, Smith-Bartholomew over Orrison-Thomson and Pletz-Roberts over Matthews-Stout. Other league action saw the combination of Early and True take four tallies from Gregory and Dehoney.

Harry Shatley took low scratch honors for the week by shooting a fine 39, reduced to 33 with handicap.

League standing follows:

Team	W	L
Shatley-Kahley	32	10
Gambill-Hamby	30	12
Smith-Bartholomew	29	13
Orrison-Thomson	21	21
Gregory-Dehoney	21	21
Wallace-Patterson	21	21
Pletz-Roberts	20	22
Early-True	18	24
Maddix-Luck	17	25
Bremen-Hackett	16	26
Everitt-Loekhart	16	26
Matthews-Stout	7	35

Close Race Seen In L.C. League

Everything points to a real fine race for the second half championship of the Lenoir City League of Y-12 golfers. All winners for the week of June 29 posted a three point margin. Tom Harris and Tom Verner was victorious over L. C. Watson and W. C. Collins; F. Kennedy and C. Beckett trimmed S. D. Peters and P. J. Arrowood; F. K. Clabough and C. Spradlin beat E. N. Rogers and J. C. Thompson; E. S. Hardy and C. E. Harris hopped H. Huston and W. Rutherford while W. M. James and A. E. Perry took Walt Simmons and Mac Wright into camp.

Low scores for the week were, C. E. Harris 43-37, Clabough 43-36, Arrowood 44-38 and Kennedy 44-42.

League standing follows:

Team	W	L
Tom Harris-Verner	6	2
Clabough-Spradlin	6	2
Peters-Arrowood	5	3
Rogers-Thompson	5	3
Simmons-Mac Wright	4	4
Kennedy-Beckett	4	4
Hardy-C. E. Harris	4	4
James-Perry	3	5
Huston-Rutherford	2	6
Watson-Collins	1	7



DAVID BURKHART, SON of L. E. Burkhardt, of the Y-12 Technical Division, is shown breaking the finish tape after a fast relay race. Young Burkhardt recently received a University of Tennessee track scholarship.

Son Of Y-12er Wins Award

Another son of a Y-12er apparently is headed for sports recognition at the University of Tennessee. This time it is David Burkhardt, a standout on the Oak Ridge High School track team during the past season, who recently received a UT scholarship. He is the son of Elkin Burkhardt, Head of four departments in applied physics in the Technical Division.

Young Burkhardt recently took first place in the 440-yard run in the state high school track meet at Memphis. This victory helped the Wildcats of Coach Ben Martin to take second place in the meet. Burkhardt ran the quarter-mile in the respectable time of 51.2 seconds. He also ran on the relay team.

UT Track Coach Johnny Sines is happy to have signed the son of the Y-12er to the UT scholarship.

"Coach Martin has produced a host of first-rate track men, and Burkhardt is one of the best," said the UT mentor. "I'm sure he will be a valuable man for us for the next few years."

ORHS Coach Martin also had praise for Burkhardt, saying:

"I assured Coach Sines that David will make an all-out effort. Another thing is that he is a good student."

David Burkhardt is 18 years old, five-feet, 11 inches tall and weighs 175 pounds. He first tried for the track team in his junior year and has made steady progress under Coach Martin. His best time in the 440 was in practice, when he equalled the state high school record of 50.1 seconds.

Deane Hill Loop Has Fine Play

The Deane Hill Golf League which is made up of Y-12 and Oak Ridge National Laboratory employees is rolling along in fine style. Riding in first place in the loop is the combination of Cleland and Young with 26 points won.

League standings:

Team	W
Cleland-Young	26
Schaich-Pierce	25 1/2
Johnson-Whitman	21
White-Susano	17 1/2
McWherter-Lyon	14 1/2
Newton-Poquire	13 1/2
Patterson-Rueff	13
Bollinger-Dalton	9

A gossip turns an earful into a mouthful.

One Game Played In Plant League

Reactors Whip Atoms In Well-Played Contest

Only one game was played in the Y-12 Plant Softball League last week, this game found the Reactors trouncing the Atoms by a score of 9 to 3 in a fine tussle. Spud Chandler twirled a neat seven-hitter for the winning Reactors while Hill, Atoms pitcher, was touched for nine hits. Chandler struck out nine men. Cavosie and Hopkins each collected two hits out of three trips to the plate for the Reactors. Roe had two for four while Cheek and Hopkins slammed out home runs for the winners. Kendrick led the Atoms at the plate by getting two for three while Daws and Shotts each slapped a triple for the losers.

As The Bulletin went to press, the first half champion of the league was still undecided.

Line scores and league standing follows:

Team	R	H	E
Atoms	101	001	3 7 2
Reactors	402	012	9 9 2

Batteries: Atoms, Hill and Myers. Reactors, Chandler and Smith.

Team	W	L
Whiz Kids	8	2
Reactors	7	2
Sportsmen	6	3
Atoms	6	4
Slow Pokes	2	8

McLendon-Mee Tops In Red Loop

The combination of Jack McLendon and Bill Mee continued their march toward the championship of the Red League of Y-12 golfers in Oak Ridge on June 24 by taking four points from Brown and Nichols. Six point wins were turned in by Boyd-Oliphant over Ratjen-Davis, and Holzknacht-Peckman over Bailey-Stoner. The duo of Speas-Peterson took four points from Hopkins-Belvin as did Underwood-Olson over Youngblood-Burkhart, and Oxford-Collins over Gilcrease-Crow. Emlet and Hines split their match with Tibbatts and Mitchel each winning three points.

Low scores for the week included, Logan Emlet 45-36, Clyde Hopkins 44-37, L. E. Burkhardt 46-37, Bill Mee 42-38 and Nelson Tibbatts 47-38.

League standing follows:

Team	W	L
McLendon-Mee	32	10
Boyd-Oliphant	30	12
Holzknacht-Peckman	29	13
Hopkins-Belvin	26	16
Speas-Peterson	25	17
Emlet-Hines	23	19
Ratjen-Davis	22	22
Brown-Nichols	21	21
Tibbatts-Mitchel	21	21
Youngblood-Burkhart	20	22
Underwood-Olson	19	23
Oxford-Collins	13	29
Gilcrease-Crow	11	31
Bailey-Stoner	4	38

Tennis League In High Gear

The Y-12 Men's Singles Tennis League swung into high gear the week of June 16 with three matches being played on the Oak Ridge courts. Sam Campbell trimmed Pete Rekemeyer by 6-0 and 6-0. Charley Robinson won two sets over John Perry by 6-1 and 6-2. In the other match of the week Al Christman clipped Ray Kuhn by 6-1 and 6-1.

Results for the week of June 23 also is reported as Christman beat Perry 6-2 and 6-2. Kuhn won out over Bill Harper by 5-7, 6-4 and 6-2, while Disney nipped Rekemeyer by 6-0, 5-7 and 6-4.

MANY CANS PRODUCED

About 30 billion cans, worth \$1.5 billion, were produced in the nation in a recent year, notes a 20th Century Fund report. They were used to hold 1,500 different items.

Bulk Rate
U. S. Postage
PAID
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Permit No. 71

**UNION CARBIDE
NUCLEAR COMPANY**
Division of
Union Carbide Corporation
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POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED,
RETURN TO SENDER IMMEDIATELY.

U. S. Death Rate For 1958 Slightly Higher Than For Previous Year, Asian Flu Blamed

New Methods Of Treating Diseases Makes Future Picture For Health Of Americans Encouraging

In 1958, for the second year in a row, the general death rate for the United States is higher than it was in 1956, statisticians of the Metropolitan Life Insurance Co. report. The rise is due largely to widespread outbreaks of respiratory disease in the early months of 1958 which followed the epidemic of Asian influenza in the closing months of 1957.

Increase Is Moderate

The increase, however, was quite moderate. The death rate for 1958 is estimated to be 9.6 per 1,000 population—the same as it was for 1957—which is only two per cent above that for 1956 and four per cent above the all-time low of 9.2 established in 1954. For 11 years in succession now the mortality rate in the country has been below 10 per 1,000.

"The death rate from influenza and pneumonia in 1958 will approximate that for 1957," the statisticians note. "The mortality from these causes in the two years is the highest in about a decade, but is still less than half the level prevailing in the immediate pre-World War II years, prior to the widespread use of sulfa drugs and the antibiotics."

Older Persons Hardest Hit

The impact of the epidemic was particularly great among older persons with chronic disease. Consequently, the death rate from diseases of the heart, arteries and kidneys, which now account for well over half of all deaths in the United States, rose markedly in the early part of the year. In the January-March period of 1958, the death rate from diseases of the heart, arteries, and kidneys was nearly 600 per 100,000, an increase of eight per cent over the like period of 1957. The disparity narrowed in succeeding months, and the outlook is that the mortality from these diseases for the year as a whole will not be appreciably different from the rate for 1957.

The mortality from cancer, which now accounts for almost one-sixth of all deaths, was practically at the same level in 1958 as in the preceding year, the statisticians state. In view of the increasing proportion of older persons, who are the chief victims of cancer, this record may be viewed as somewhat encouraging. Some significant gains are being recorded as the result of early detection of cancer, particularly for certain sites among women.

New Drugs Combat Diabetes

The mortality from diabetes in 1958 likewise was little changed from that in 1957. Drugs taken orally have recently been found effective in controlling the blood-sugar level, and while their definitive evaluation will take time, present prospects are encouraging.

Continuing its long-term downward trend, the death rate from tuberculosis decreased slightly to seven per 100,000 in 1958, it was reported. The tuberculosis death rate has dropped more than 50 per cent in the past six years and about 75 per cent in the past decade, mainly as a result of the newer methods of treatment.

Polio Vaccination Urged

The number of poliomyelitis cases in 1958 exceeds by a small

margin the 5,894 cases reported in 1957, the statisticians estimate. In sharp contrast, in 1955 about 29,000 polio cases were reported, and in 1952 nearly 58,000. The low incidence of the disease in the past two years reflects in large part the effectiveness of the Salk vaccine. However, 1958 saw a relatively high proportion of paralytic-type cases.

"The concentration of these cases among the unvaccinated points up the need to accelerate the vaccination program," the statisticians comment.

Childhood mortality in 1958 continued at the extremely low level of the last few years. Although 1958 was a "measles year," with an increase of nearly 60 per cent in the case frequency over 1957, the number of deaths was relatively small.

Infant Mortality About Same

Mortality among infants is adversely affected during periods of high incidence of respiratory infections, and consequently the infant mortality rates in 1958 and 1957 showed no improvement over that in 1956. This is the first interruption in the long period of rapidly declining rates. Nevertheless, the 1958 infant mortality rate is about a sixth lower than that recorded 10 years ago. Maternal mortality has not changed appreciably between 1957 and 1958, remaining at the very low rate of about four per 10,000 live births.

The death toll from accidents was a little lower in 1958 than the year before. Part of the improvement reflects the decrease in fatalities from motor vehicle accidents.

Chronic Diseases Control Needed

"The outlook for the country's health in 1959 and the years ahead is excellent," say the statisticians. "The major task ahead is the control of chronic disease, especially diseases of the circulatory system and cancer, which have become increasingly important with the growth of our population of elders. The nation's health will benefit as various programs for health services continue to develop. An important factor in promoting the use of these services is the rapid growth of health insurance."

Linde To Build Gas Plant In Huntsville, Ala., Area

The Linde Company, a Division of Union Carbide Corporation, will build a liquid nitrogen and oxygen plant near Huntsville, Ala., in the vicinity of the Redstone Arsenal. The plant will have a capacity of 100,000,000 cubic feet of oxygen and nitrogen monthly and is scheduled to be completed early in 1960. The products will be used by missile and aircraft industries, as well as the steel, chemical, petroleum and food industries of the South.



Continued from Page 2

the WATO platter party recently; he named the top 20 tunes and won \$20 worth of merchandise and \$5 cash . . . Ken Valentine and family are visiting his parents up in Minnesota . . . A. G. Harber is spending two weeks at Camp Stewart, Ga. . . W. R. Branscome and wife attended the Amaranth National Convention in New York recently and a marvelous time was had sightseeing and meeting other convention delegates from Scotland, Wales and other foreign countries.

ENGINEERING

The Mechanical Engineering Department passes along the word that L. L. Brown is off to Kansas City to bring back his wife and children to Oak Ridge . . . The Lon McNeils are taking a trip to Radford, Va., and Washington, D. C., to visit friends, they will return home via the coastal route.

Tom Norris and spouse motored over to Nashville to see the home folks . . . George Drevik is spending his vacation playing golf and visiting relatives in Cicero, Ill., and in Columbus and Warren, Ohio . . . Bob Lassiter and family spent the long week-end in Gatlinburg . . . Harvey Coppock spent the long week-end riding those "Educated Barrel Staves" on Norris Lake . . . Barbara Pullen, formerly of the M.E. Dept., has a bouncing baby boy, the youngster was born on June 30 and weighed 6 lbs. 11 oz. . . The red carpet was rolled out last week for a couple of new employees, Duward Chastain and Jack Blackerby.

Civil and Architectural Engineering sends word that Warren Niles is in Wisconsin on vacation, catching up on his fishing . . . Three Y-12ers have finished the Advanced Piloting course in the Oak Ridge Power Squadron and they are now qualified to navigate offshore, so congratulations are in store for W. H. Rice, of the C.E. Dept., Dr. Kenneth Lane, of the Medical Staff, and B. B. Bell, of the Instrument Engineering Department.

TECHNICAL

Everette Rogers, Mechanical Inspection, and his family are spending a vacation with his parents in Muncie, Ind. . . Glen Wells is spending his relaxation time tearing down an old house on his farm.

Jim Cagle, of Radiation Safety, went to Gaffney, S.C., on vacation. . . Connie Mills, husband Jack, of Instrument Engineering, and their two daughters are visiting in Milwaukee and other points up North . . . Paul McRee and family took off on a three weeks trip to California . . . Sympathy is extended to B. F. Rutherford and Jerry Lambdin on the death of their grandmother.

Frank Ballenger, Special Projects, scored a big hit with his children by taking them to Cincinnati for some ball games recently. . . Lew Ellington took off for the big state of Texas to visit his kin-folks . . . Jim George journeyed to Asheville Park for a camping event.

Lynn Hankins, of Laboratory Operations, and husband, Bob, of Development, vacationed in Gatlinburg recently . . . Bob Thornton took his off time in Rockwood while Anna Perry stayed at home in Norris.

Joe Beaver took his family and went to Florida on vacation . . . Bruce Whitaker journeyed to Alabama and Panama City, Fla.

Julie Overton, Tabulation Service, left to join her husband in the Armed Forces, the department sends best wishes to her . . . Betsy Diggs is vacationing in Tampa, Fla.

MECHANICAL OPERATIONS

Vacation news takes the headlines around the Mechanical Operations Division according to ace

reporter Tim Watt—so here goes —E. E. Worsham gone to Miami. . . Stay-at-homers include H. G. Crews, G. E. Valentine, W. C. Gordon, Joe Dick, J. J. Winslett and M. F. Davis . . . R. E. Graham off to Miami . . . F. Cox gone to Carolina Beach . . . R. A. Wilson gone to the big city of New York to see some ball games . . . W. L. Taylor took a trip to Virginia, New Hampshire and Connecticut . . . C. E. Carter journeyed to Ohio . . . J. R. Ryan is taking a week in North Carolina. . . A. T. Bradford took in the sights of New York . . . C. Baxter off to Daytona Beach while J. L. Billings plans to do some fishing at Deer Lodge, Tenn. . . Get well wishes go to E. E. Lamb and L. D. Best . . . L. A. Underdown and A. D. Shulte are down in Georgia with the National Guard.

George Blakely, Beta Four Machine Shop, has gone over the mountains to do a little fishing around Norfolk, Va.

Reece Robbins took his vacation in the sunny state of Florida.

Latest happenings around the General Machine Shop follows: E. L. Pemberton taking a vacation in New Mexico . . . Earl Johnson to Daytona Beach while R. E. Ferguson is staying at home in Oak Ridge taking it easy . . . Buck Hale took his vacation to camp in the Smokies with his son. . . J. R. Gresham meandered to Indiana and Illinois . . . E. L. Armstrong went to Daytona and M. L. Patterson went to Alabama. . . Sympathy is extended to W. C. Fraley, whose grandfather died recently in Big Stone Gap, Va. . . Get well wishes go to Janice Gore. . . H. D. Campbell vacationed at home in Knoxville and T. W. Williams did the same in Clinton.

INDUSTRIAL RELATIONS

Edna Kennedy, Medical, has returned from a Florida vacation. . . Maude Clemmer is in Florida looking over her real estate . . . Hazel Willis is vacationing; she's opening up a new "eating place" in Lonsdale . . . Dr. H. E. Dickson, formerly of the Medical Dept., was a recent visitor in Oak Ridge. He was enroute to Atlanta from Harvard where he has been studying for the past year and has received a Ph.D. in Public Health.

Y-12ers With 15, 10 Years Company Service

Congratulations to the following Y-12 employees who will complete 15 years of Company Service within the next few days. No Y-12 employees will observe their 10th anniversary of employment during the next week.

15 YEARS

Sallie F. Durham, Janitors, July 8.
Frank P. Adams, Chemical, July 10.
William B. Eisenhower, Building and Grounds, July 10.
Floyd L. Remine, Fire Department, July 10.
James C. Nelson, Chemical, July 10.
Dayton H. Patterson, Guard, July 11.
Joe M. McMaster, Property, July 11.
George W. Peach, Z Area, July 11.
Charles A. Gregory, Research Services, July 12.
Paul C. Posey, Janitors, July 14.
Norman R. Corbin, Research Services, July 14.

Well, Volare and Alvin, the Muskrat and his harmonica, have made history and Emmies—but whatintheheck happened to hula hoops?

Enjoy your vacation—and come back refreshed.

Safety Council Advises Vacationers

Continued from Page 1
squarely in the seat.

3. Keep hands off door handles, the gear shift lever, ignition key and lights. Never grab the wheel.
4. No lollipops on a stick that might injure an eye or a mouth in event of a sudden stop or unexpected tumble.

Now for some ways to make your youngsters happy on a trip:

1. Keep them occupied with games and toys—but nothing demanding a lot of physical action.
2. Stop several times a day to play with your children. Rest stops provide a good chance for cooped-up kids to let off stored-up steam.
3. Encourage the small fry to take naps.
4. Don't travel too many hours at a stretch. Drivers get tired, too. "On long trips," the Council suggests, "a bag of surprises opened at intervals helps keep interest up—and your children contented."

Three More Y-12ers Improve Education

Continued from Page 1

tronics and communications. He previously completed a Dale Carnegie course in public speaking and human relations.

Lankford is a native East Tennessean, having been born in Deer Lodge, Morgan County. He went to grammar school in Burrville and then completed a high school correspondence course with the American School, Chicago. He became a Y-12 employee on May 31, 1944.

Roberts Completes UT Course

The University of Tennessee provided Roberts with his certificate in accounting, with courses in elements of accounting, intermediate accounting, cost accounting and federal income tax. His certificate was accompanied by a letter of congratulations from Dr. Charles E. Moffett, UT extension center director.

Roberts was born in Wise, Va., and went to high school there. He has taken prior correspondence school work with the ICS. He was in the United States Air Force during World War II and attained the rank of first sergeant. Roberts came to work in Y-12 on February 25, 1954.

Safest Transportation In World—Roller Coaster

Ned H. Dearborn, president of the National Safety Council, comes up with a surprising report on the safest form of transportation. He also has some other interesting statistics on safety—such as:

The safest place to be is on the job—the most dangerous is at home. The most common types of industrial accidents are falls and sprains. The same is true of the home.

The safest form of transportation—the roller coaster.

For certain shut-ins, a hack saw is an acceptable gift.

WHO KNOWS WHY DOLLARS ACQUIRED SIGN OF \$ \$ \$

Origin of the \$ sign is a mystery. The most widely accepted theory is that it evolved from the Spanish abbreviation "Ps" for piasters, or the same Mexican symbol of pesos, according to the National Geographic magazine.

Scholars have noted in old manuscripts that the "s" gradually came to be written over the "P," making a close equivalent of the internationally known dollar mark.